

## **I. BACKGROUND OF THE INVENTION**

The present invention concerns that of a new and improved weed cutting apparatus for use in water.

## **II. DESCRIPTION OF THE PRIOR ART**

United States Patent No. 5,807,150, issued to Minter Sr., discloses a blade system capable of being attached to a trolling motor for cutting weeds and aquatic plants that can entangle in the propeller of a boat.

United States Patent No. 4,450,670, issued to Robinson, discloses a cutting blade that is attachable to a trolling motor housing using a clamping ring, for purpose of preventing weeds and underwater foliage from fouling the drive mechanism.

United States Patent No. 425,019, issued to Bower, discloses a blade attachment to prevent weeds from winding around the screw and shaft of a launch.

### **III. SUMMARY OF THE INVENTION**

The present invention concerns that of a new and improved weed cutting apparatus for use in water. The weed cutting apparatus would be designed to cut weeds within a body of water without having the weeds tangle on the present invention.

There has thus been outlined, rather broadly, the more important features of a weed cutting apparatus so that the detailed description thereof that follows may be better understood and in order that the present contribution to the art may be better appreciated. There are, of course, additional features of the weed cutting apparatus that will be described hereinafter and which will form the subject matter of the claims appended hereto.

In this respect, before explaining at least one embodiment of the weed cutting apparatus in detail, it is to be understood that the weed cutting apparatus is not limited in its application to the details of construction and to the arrangements of the components set forth in the following description or illustrated in the drawings. The weed cutting apparatus is capable of other embodiments and being practiced and carried out in various ways. Also, it is to be understood that the phraseology and terminology employed herein are for the purpose of descriptions and should not be regarded as limiting.

As such, those skilled in the art will appreciate that the conception, upon which this disclosure is based, may readily be utilized as a basis for the designing of other structures, methods and systems for carrying out the several purposes of the present weed cutting apparatus. It is important, therefore, that the claims be regarded as including such equivalent constructions insofar as they do not depart from the spirit and scope of the present invention.

It is therefore an object of the present invention to provide a weed cutting apparatus which has all of the advantages of the prior art and none of the disadvantages.

It is another object of the present invention to provide a weed cutting apparatus which may be easily and efficiently manufactured and marketed.

It is another object of the present invention to provide a weed cutting apparatus which is of durable and reliable construction.

It is yet another object of the present invention to provide a weed cutting apparatus which is economically affordable and available for relevant purchasing government entities.

Other objects, features and advantages of the present invention will become more readily apparent from the following detailed description of the preferred embodiment when considered with the attached drawings and appended claims.

#### **IV. BRIEF DESCRIPTION OF THE DRAWINGS**

Figure 1 shows a side view of the first embodiment of the weed cutting apparatus.

Figure 2 shows a side view of an alternative embodiment of the weed cutting apparatus.

Figure 3 shows a top view of the first embodiment of the weed cutting apparatus.

Figure 4 shows a top view of an alternative embodiment of the weed cutting apparatus.

Figure 5 shows a top view of the first end of the first embodiment of the present invention.

Figure 6 shows a top view of the first end of the alternative embodiment of the present invention.

## **V. DESCRIPTION OF THE PREFERRED EMBODIMENT**

Priority is hereby claimed to application 60/393,471, filed on 07/05/02.

Figure 1 shows a side view of one embodiment of the weed cutting apparatus 2, while Figure 3 shows a top view of the same embodiment of weed cutting apparatus 2. Weed cutting apparatus 2 would comprise a trolling motor 4, a shaft 6, base 8, a plurality of propellor blades 10 rotatably attached to the base 8, a pair of knives 12 and 14, and a pair of clamps 16 and 18 to hold down the knives in place. Motor 4 would be powered by power means which could either be a small gasoline engine or an incorporated battery.

Trolling motor 4 has a top and a bottom and is mounted on a boat 50. Handle 5 is located on the top of trolling motor 4. Shaft 6 has two ends, a top end and a bottom end, with the top end of the shaft 6 attached to the bottom of the trolling motor 4. The bottom end of shaft 6 is attached to the base 8, which is cylindrically-shaped, in between the first end and the second end of the base 8. The second end of shaft 6 is attached to the side of base 8, which has two ends, a first end and a second end.

The first end of base 8 would be rounded. The second end of base 8 would have a propeller base 54 axially attached, with the propeller base 54 being rotatable. A plurality of propellor blades 10 are attached to the base 8, with the propellor blades 10 evenly spaced out from one another and sharing a common axis 15 to allow even rotation. Base 8 would also contain a tail fin 20; which would be located on the base 8 near the second end of base 8.

The pair of knives 12 and 14 each have two ends, a sharp end and a dull end. The dull end of each knife is strapped to base 8 by a pair of clamps 16 and 18, which would be removable. In the embodiment shown in Figures 1 and 3, the clamps 16 and 18 would

envelop the base 8 in between the connection point of the shaft 6 and the second end of the base 8. Approximately one-fourth of the length of knives 12 and 14 would be bent outward at a forty-five (45) degree angle, with the bend occurring closer to the sharp side of each knife. Each of the knives is located one hundred eighty degrees from the other knife.

In use, an individual would insert the base 8 into a body of water and move the first end of the base 8 toward a bunch of weeds. As the plurality of propellor blades 10 would turn, they would draw weeds into the knives 12 and 14. As the plurality of propellor blades 10 turns, it would twist weeds and force them into the knives, thereby cutting them without clogging up the plurality of propellor blades 10.

Figure 2 shows a side view of an alternative embodiment of the weed cutting apparatus. Figure 4 shows a top view of an alternative embodiment of the weed cutting apparatus. Weed cutting apparatus 2 would comprise a trolling motor 4, a shaft 6, base 8, a plurality of propellor blades 10 rotatably attached to the base 8, a pair of knives 12 and 14, and a pair of clamps 16 and 18 to hold down the knives in place.

Trolling motor 4 has a top and a bottom and is mounted on a boat 50. Handle 5 is located on the top of trolling motor 4. Shaft 6 has two ends, a top end and a bottom end, with the top end of the shaft 6 attached to the bottom of the trolling motor 4. The bottom end of shaft 6 is attached to the base 8, which is cylindrically-shaped, in between the first end and the second end of the base 8. The second end of shaft 6 is attached to the side of base 8, which has two ends, a first end and a second end.

The first end of base 8 would be rounded. The second end of base 8 would have a propeller base 54 axially attached, with the propeller base 54 being rotatable. A plurality

of propellor blades 10 are attached to the base 8, with the propellor blades 10 evenly spaced out from one another and sharing a common axis 15 to allow even rotation. Base 8 would also contain a tail fin 20, which would be located on the base 8 near the second end of base 8.

The pair of knives 12 and 14 each have two ends, a sharp end and a dull end. The dull end of each knife is strapped to base 8 by a pair of clamps 16 and 18, which would be removable. In the embodiment shown in Figures 2 and 4, clamps 16 and 18 are located on either side of the shaft 6, unlike figures 1 and 3. Approximately one-fourth of the length of knives 12 and 14 would be bent outward at a forty-five (45) degree angle, with the bend occurring closer to the sharp side of each knife. Each of the knives is located one hundred eighty degrees from the other knife.

In use, an individual would insert the base 8 into a body of water and move the first end of the base 8 toward a bunch of weeds. As the plurality of propellor blades 10 would turn, they would draw weeds into the knives 12 and 14. As the plurality of propellor blades 10 turns, it would twist weeds and force them into the knives, thereby cutting them without clogging up the plurality of propellor blades 10.

Figures 5 and 6 show top views, respective, of the first end of the two embodiments disclosed herein. Each of these two embodiments is shown with a knife cover 30, with the knife cover 30 designed as a one-part cover piece for the knives 12 and 14 of each embodiment. Knife cover 30 would be designed to be placed over knives 12 and 14 when the present invention would not be in use or when an individual would not desire to use the weed wacking capabilities of the present invention.